

Claims

1. (Currently Amended) A method of setting a printing parameter for a first print medium, media, the method comprising:

obtaining an identifier of the first print medium media;

locating a remote database containing the identifier of the first print medium, a first print medium black point and a first print medium white point media and a property of the print media;

downloading the first print medium black point and the first print medium white point property of the print media; and

utilizing the property of the print media to set the printing parameter.

locating an existing color profile in the remote database, the existing color profile being based on a second print medium and a printer that is similar to an intended printer;

determining a black point difference between a second print medium black point of the second print medium and the first print medium black point;

determining a white point difference between a second print medium white point of the second print medium and the second print medium white point;

determining a total difference between the second print medium and the first print medium by adding the black point difference and the white point difference;

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

selecting the existing color profile to be a best match color profile based on the total difference;

calculating a translated color profile by translating a best match print medium black point and a best match print medium white point of a best match print medium of the best match color profile; and

calculating a new color profile by replacing the best match print medium black point with the first print medium black point, and replacing the best match print medium white point with the first print medium white point.

2. (Original) The method of claim 1 wherein the obtaining the identifier is performed by a printer.

3. (Original) The method of claim 1 wherein the obtaining the identifier includes obtaining a type of the identifier.

4. – 9. (Canceled)

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

10. (Currently Amended) The method of claim 1 ([9]) wherein the selecting
the existing color profile is further based on selection factors further comprise the black
point difference.

11. (Currently Amended) The method of claim 1 ([9]) wherein the determining
the total difference further comprises weighting the black point difference greater than
the white point difference.

12. (Currently Amended) The method of claim 1 ([9]), wherein: wherein the
property of the print media further comprises a print media tone curve, the method
further comprising determining a tone curve difference between a second media tone
curve of the second media and the print media tone curve; and wherein the selection
factors further comprise the tone curve difference.

the remote database further comprises a first print medium tone curve;
the method further comprises determining a tone curve difference between a

second print medium tone curve of the second print medium and the first print medium
tone curve; and

the selecting the existing color profile is further based on the tone curve
difference.

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

13. (Currently Amended) The method of claim 12, wherein:

the first print medium media tone curve further comprises a first print medium media base color tone curve; and wherein

the tone curve difference is a sum of [[a]] base color tone curve differences difference of each base color of the intended printer, the base color tone curve differences difference being between a second print medium media base color tone curve of the second print medium media and the first print medium media base color tone curve.

14. (Currently Amended) The method of claim 1 [[9]], wherein the calculating a translated color profile further translating the property of the best match print media comprises:

calculating a difference vector comprising a difference between the property of the best match print medium black point media and the property of the first print medium black point, and between the best match print medium white point and the first print medium white point; media;

interpolating and extrapolating the difference vector to a dimension of a lookup table tag of the best match color profile; and

adding the interpolated and extrapolated difference vector to the lookup table tag of the best match color profile.

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

15. - 21. (Canceled)

22. (Currently Amended) One or more [[A]] computer-readable media medium having computer-executable executable instructions stored thereon that, when executed, implement the following method for deriving a new color profile for a first print medium media used in an intended printer; printer, the computer-executable instructions performing steps comprising:

locating a second an existing color profile, wherein the existing second color profile is based on a second print medium media and a second similar printer that is similar to the intended printer;

determining a black point difference between a second print medium media black point of the second print medium media and a first print medium media black point of the first print medium media;

determining a white point difference between a second print medium media white point of the second print medium media and a first print medium media white point of the first print medium media;

determining a total difference between the second print medium media and the first print medium media, wherein the determining the total difference comprises by adding the black point difference and the white point difference;

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

selecting the existing second color profile to be a best match color profile based on selection factors that include comprising: the total difference between the second print medium media and the first print media medium;

calculating a translated color profile by, wherein the calculating comprises translating a property of a best match print medium media of the best match color profile; and

calculating the new color profile by, wherein the calculating comprises replacing a property of the best match print medium media with a property of the first print media medium.

23. (Currently Amended) The computer-readable medium of claim 22, wherein the step of determining the total difference further comprises the step of weighting the black point difference greater than the white point difference.

24. (Currently Amended) The computer-readable medium of claim 22, wherein the steps further comprising comprise determining a tone curve difference between a second print medium media tone curve of the second print medium media and a first print medium media tone curve of the first print medium, media; and wherein the selection factors further include comprise the tone curve difference.

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

25. (Currently Amended) The computer-readable medium of claim 24 wherein the tone curve difference is a sum of [[a]] base color tone curve differences difference-of each base color of the intended printer; wherein printer, the base color tone curve difference being [[is]] between a second print medium media base color tone curve of the second print medium media and a first print medium media base color tone curve of the first print media medium.

26. (Currently Amended) The computer-readable medium of claim 22, wherein the calculating a translated color profile further comprises: translating the property of the best match print media comprises:

calculating a difference vector that is comprising a difference between the property of the best match print medium media and the property of the first print media medium;

interpolating and extrapolating the difference vector to a dimension of a lookup table tag of the best match color profile; and

adding the interpolated and extrapolated difference vector to the lookup table tag of the best match color profile.

27. (Currently Amended) The computer-readable medium of claim 22 [[23]], wherein the locating the existing second color profile further comprises includes

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

searching a database of print media and print media properties corresponding thereto.
properties.

28. (Currently Amended) A system for setting a printing parameter for a first print medium print media, the system comprising:
a database that stores comprising-an identifier of the first print medium, a first print medium black point and a first print medium white pointprint media and a property of the print media; and
a program comprising computer-executable instructions that, when executed,
implement the following steps [[for]]:

obtaining an identifier of the first print medium; print media;
locating the database;
downloading the first print medium black point and the first print medium white point property of the print media; and
utilizing the property of the print media to set the printing parameter.
locating an existing color profile in the database, the existing color profile being based on a second print medium and a second printer that is similar to the intended printer;

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

determining a black point difference between a second print medium

black point of the second print medium and a first print medium black point of
the first print medium;

determining a white point difference between a second print medium

white point of the second print medium and a first print medium white point of
the first print medium;

determining a total difference between the second print medium and the
first print medium by adding the black point difference to the white point
difference;

selecting the existing color profile to be a best match color profile based
on selection factors that include the total difference between the second print
medium and the first print medium;

calculating a translated color profile by translating a property of a best
match print medium of the best match color profile; and

calculating a new color profile by replacing a property of the best match
print medium with the property of the first print medium.

29. (Currently Amended) The system of claim 28 further comprising a printer,
wherein the printer further comprises a sensor for obtaining the identifier of the first
print media medium.

Type of Response: Amendment/Non-Final Response

Application Number: 10/036,920

Attorney Docket Number: 177744.01

Filed: 12/21/2001

30. (Original) The system of claim 28 wherein the obtaining the identifier includes obtaining a type of the identifier.

31. - 36. (Canceled)

37. (Currently Amended) The system of claim 28 [[36]] wherein the determining the total difference further comprises weighting the black point difference greater than the white point difference.

38. (Currently Amended) The system of claim 28 [[36]] further comprising determining a tone curve difference between a second print medium media tone curve of the second print medium media and a first print medium print media tone curve of the first print medium, print media; and wherein the selection factors further include comprise the tone curve difference.

39. (Currently Amended) The system of claim 28 [[36]] wherein the tone curve difference is a sum of a base color tone curve differences difference of each base color of the intended printer, ~~wherein~~ the base color tone curve difference being [[is]] between a second print medium media base color tone curve of the second print

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001

medium media and a first print medium print media base color tone curve of the first print medium, print media.

40. (Currently Amended) The system of claim 28, [[36]], wherein the calculating a translated color profile further comprises; translating the property of the best match print media comprises:

calculating a difference vector that is comprising a difference between the property of the best match print medium ~~media~~ and the property of the first print medium; print media;

interpolating and extrapolating the difference vector to a dimension of a lookup table tag of the best match color profile; and
adding the interpolated and extrapolated difference vector to the lookup table tag of the best match color profile.

41. - 43. (Canceled)

Type of Response: Amendment/Non-Final Response
Application Number: 10/036,920
Attorney Docket Number: 177744.01
Filed: 12/21/2001